

FIG. 1

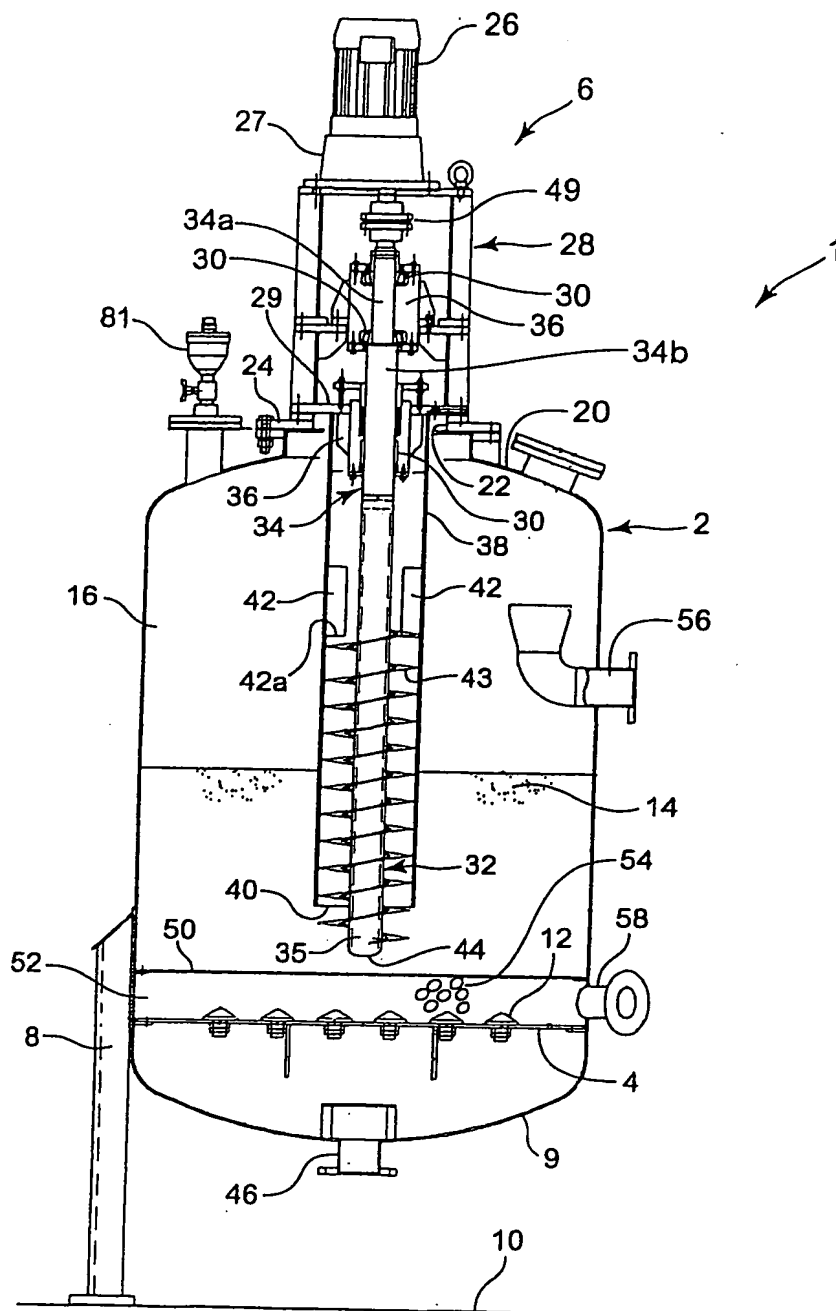


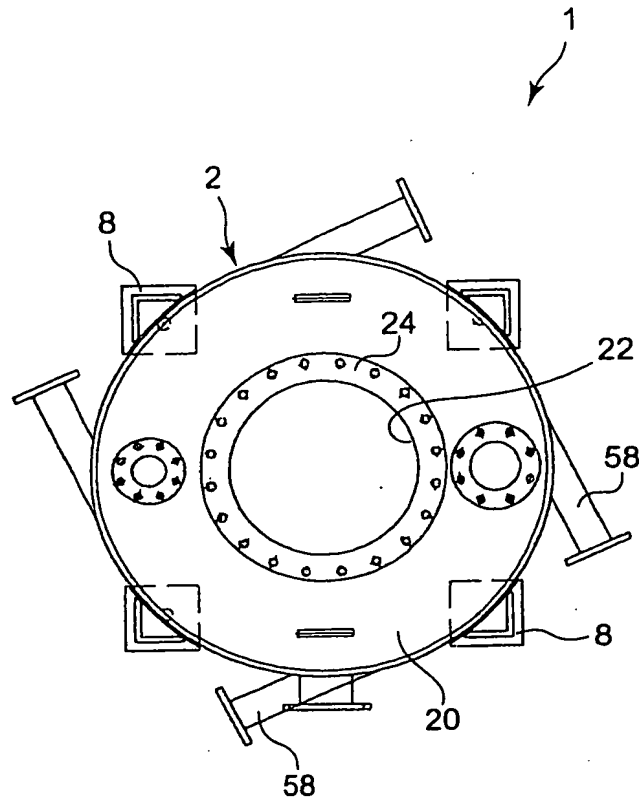
FIG.2

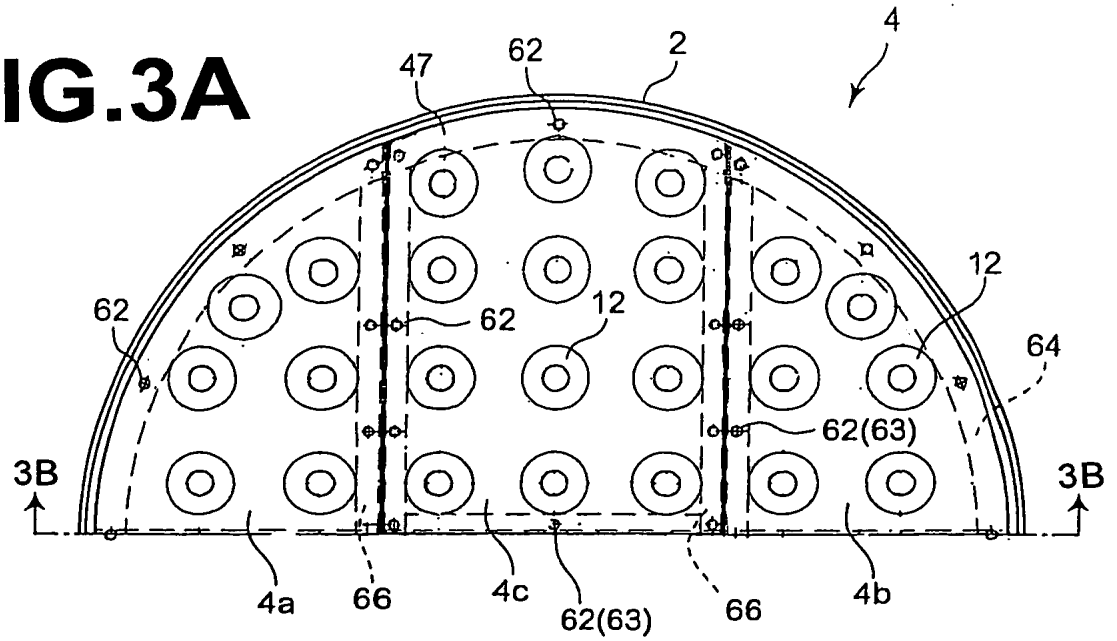
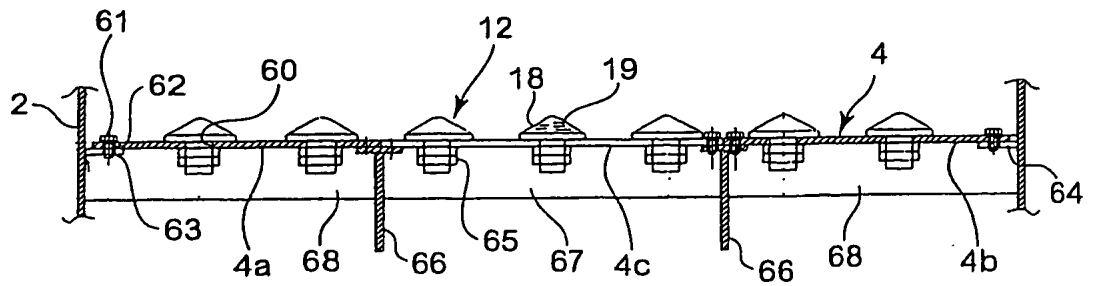
FIG.3A**FIG.3B**

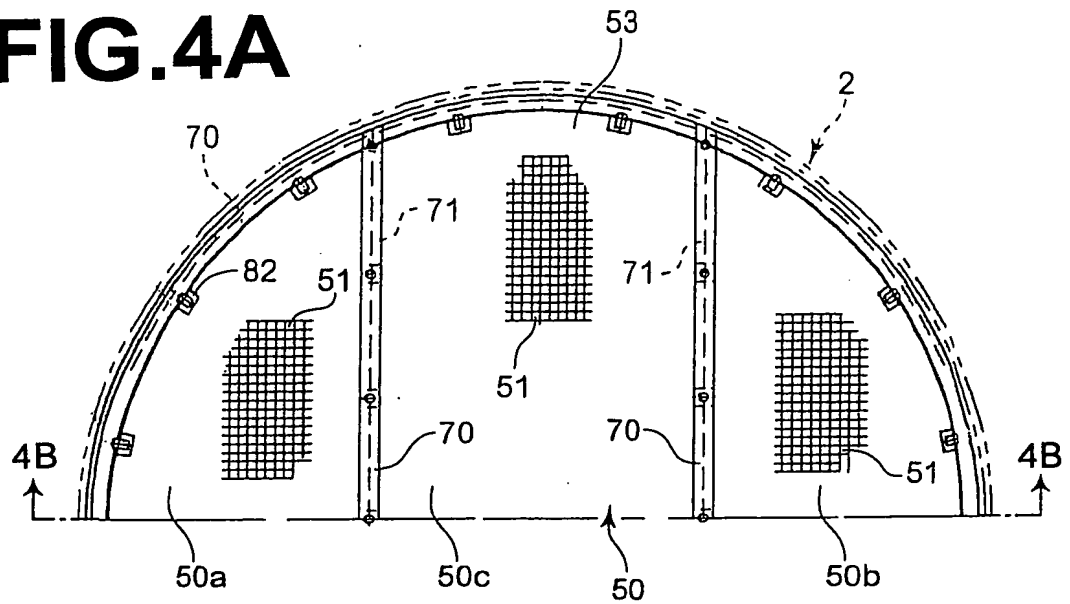
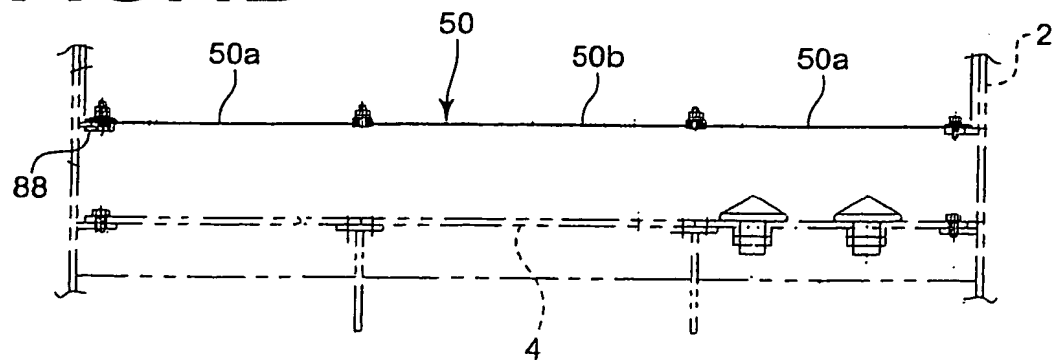
FIG.4A**FIG.4B**

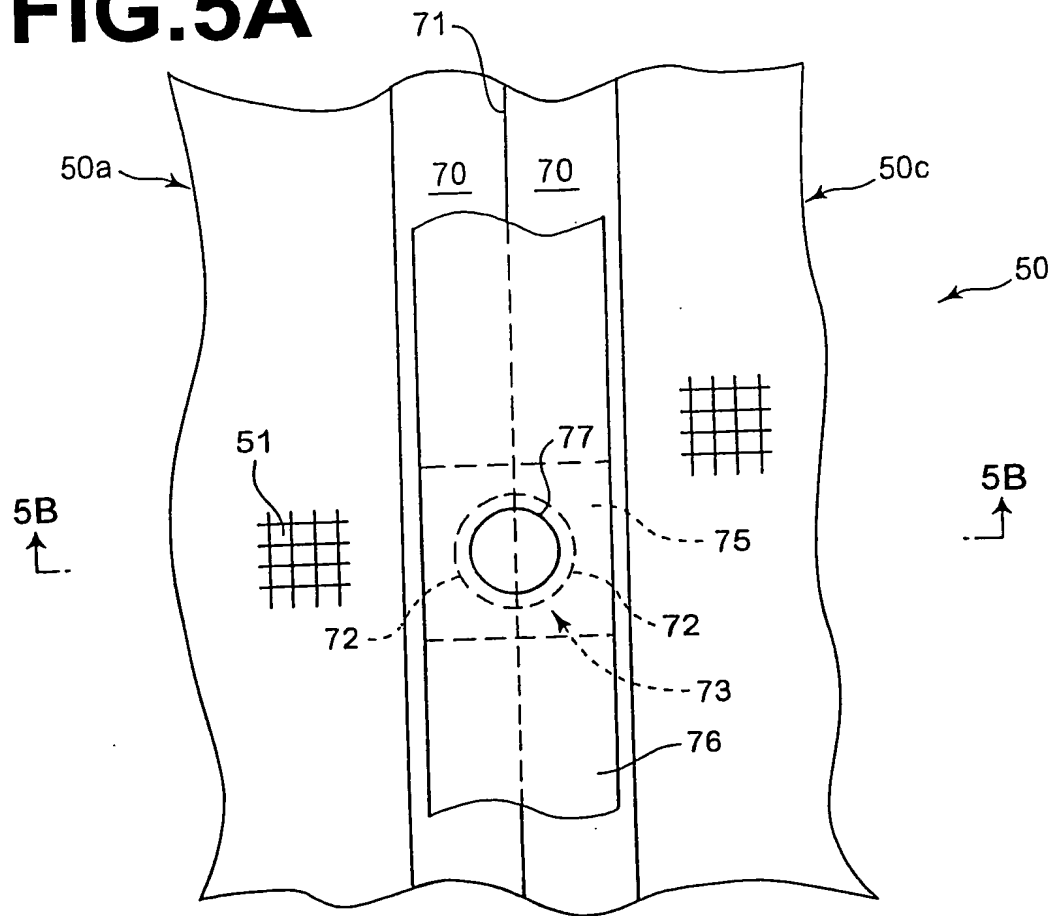
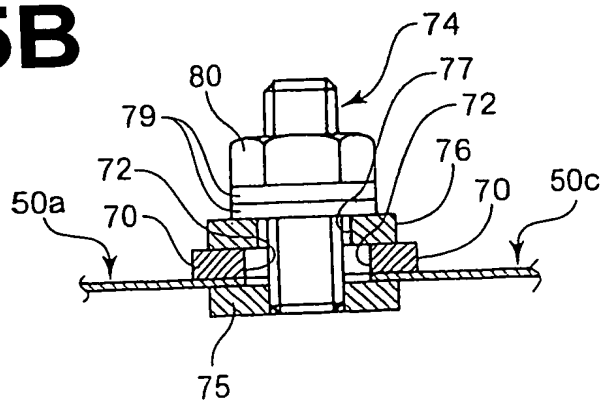
FIG.5A**FIG.5B**

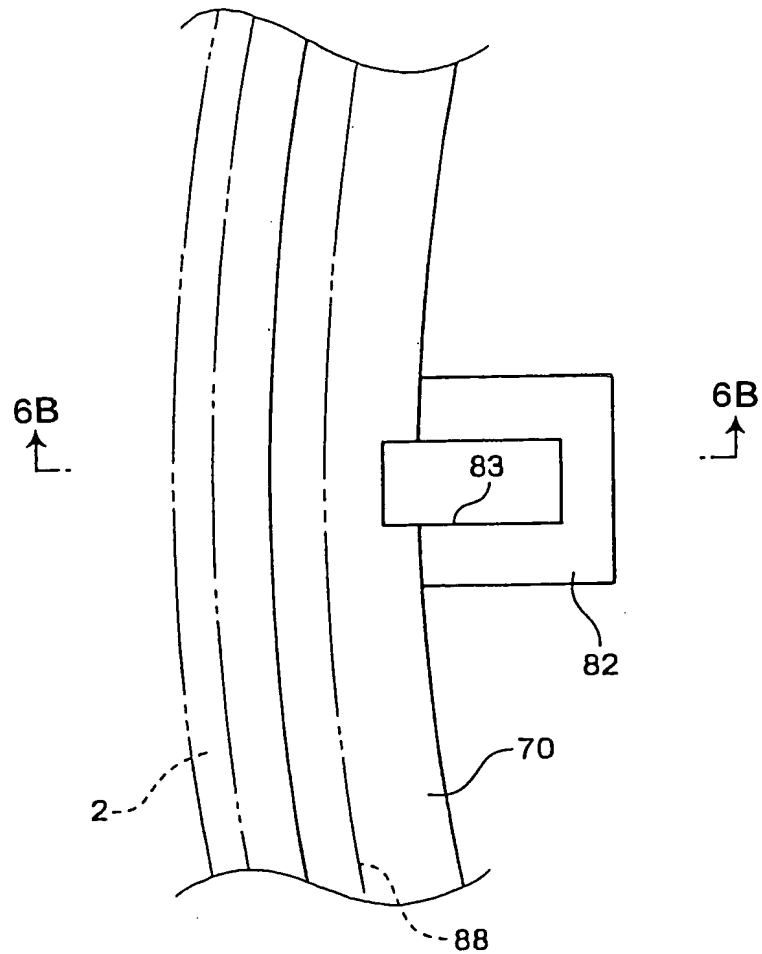
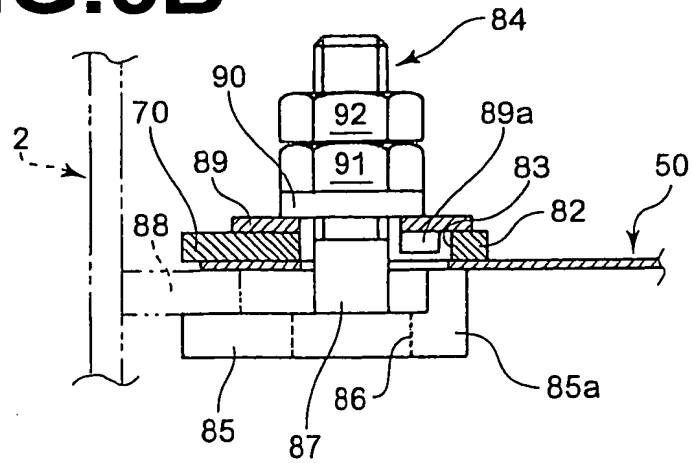
FIG.6A**FIG.6B**

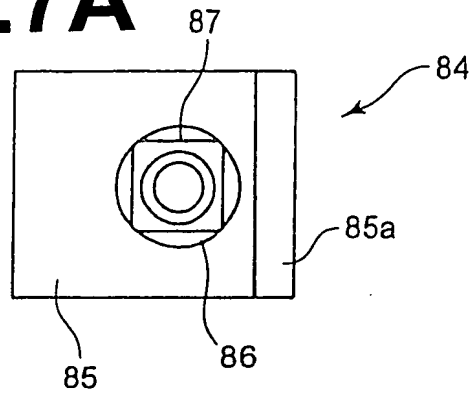
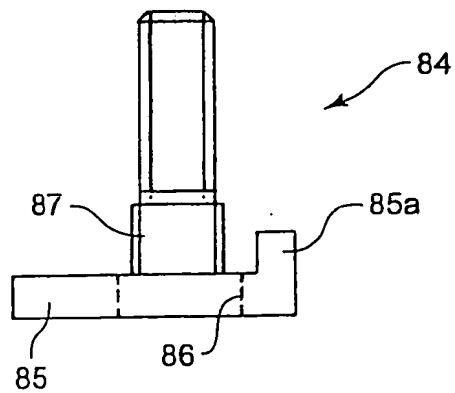
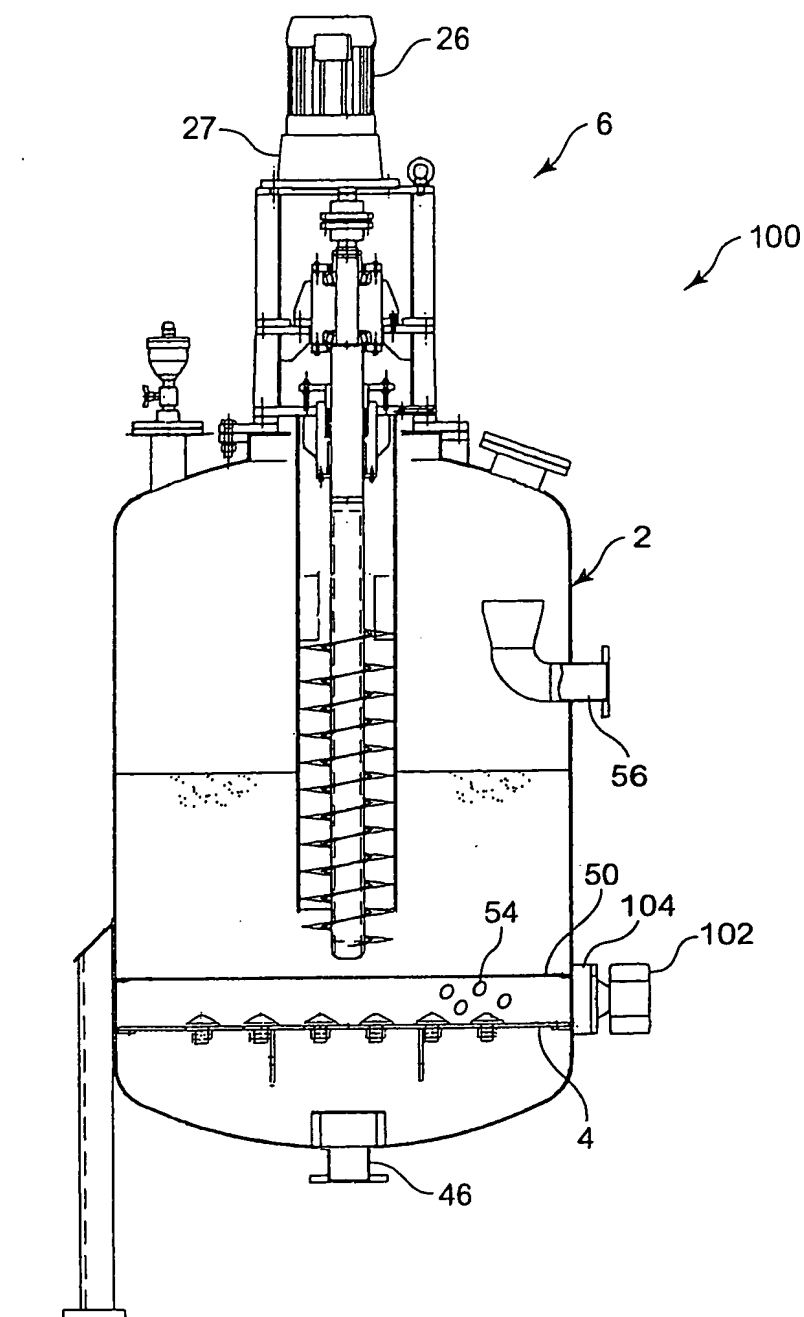
FIG.7A**FIG.7B**

FIG. 8

The diagram illustrates a chemical reactor system 1'. A central cylindrical reactor vessel 2 is equipped with an internal stirrer 32 driven by a motor 26. The vessel contains a liquid 3 and a solid catalyst 4. A gas inlet 54 is located at the bottom of the vessel. A liquid outlet 56 is positioned on the side. A level sensor 81 is mounted on top. A dashed line 14 indicates a control zone. The reactor is connected to a complex piping system 110. This system includes three pumps: P1, P2, and P3. P1 is connected to a line with valve V1 and flow meter F. P2 is connected to a line with valve V4 and flow meter F. P3 is connected to a line with valve V2 and flow meter F. The system also features several control valves (V3, V5, V6, V7) and flow meters (M). The piping system includes a bypass line 112 and a main line 114. A vertical line 116 is also shown. The system is designed for the controlled reaction of a liquid and a solid catalyst, with the ability to add a gas and manage the flow of the reaction mixture.

FIG.10

	FILTRATION	WATER LEVEL ADJUSTMENT	CLEANSING	SECOND BACKWASH	WASTE WATER	FILTRATION
MOTOR						
V1 : RAW WATER VALVE						
V2 : FILTERED WATER VALVE						
V3 : EXPELLED WATER VALVE						
V4 : BACKWASH VALVE						
V5 : WATER LEVEL ADJUSTING VALVE						
V6 : WATER LEVEL ADJUSTING VALVE						
V7 : WASTE WATER VALVE						
P1 : RAW WATER PUMP						
P2 : BACKWASH PUMP(L)						
P3 : BACKWASH PUMP(S)						

FIG. 11

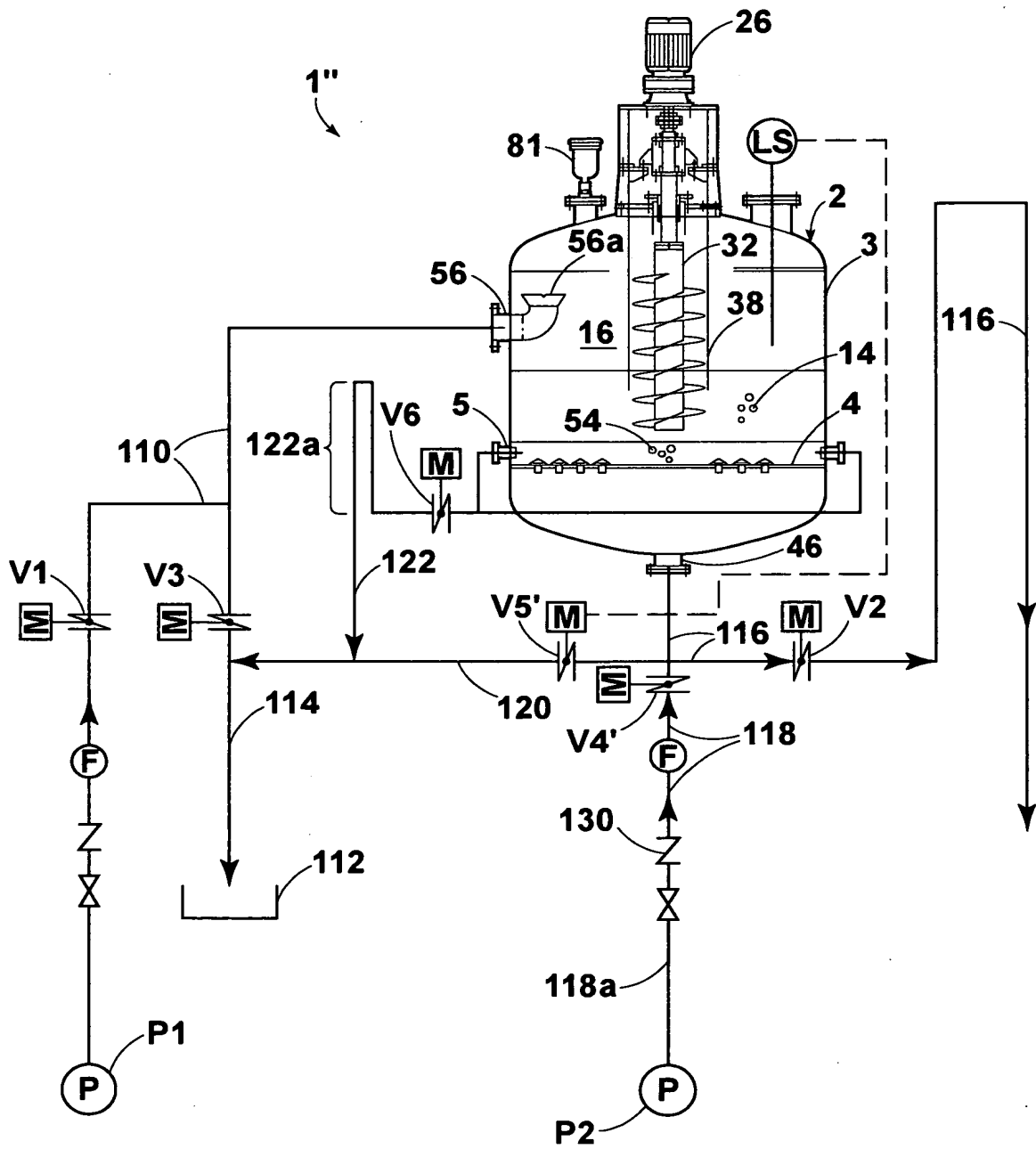
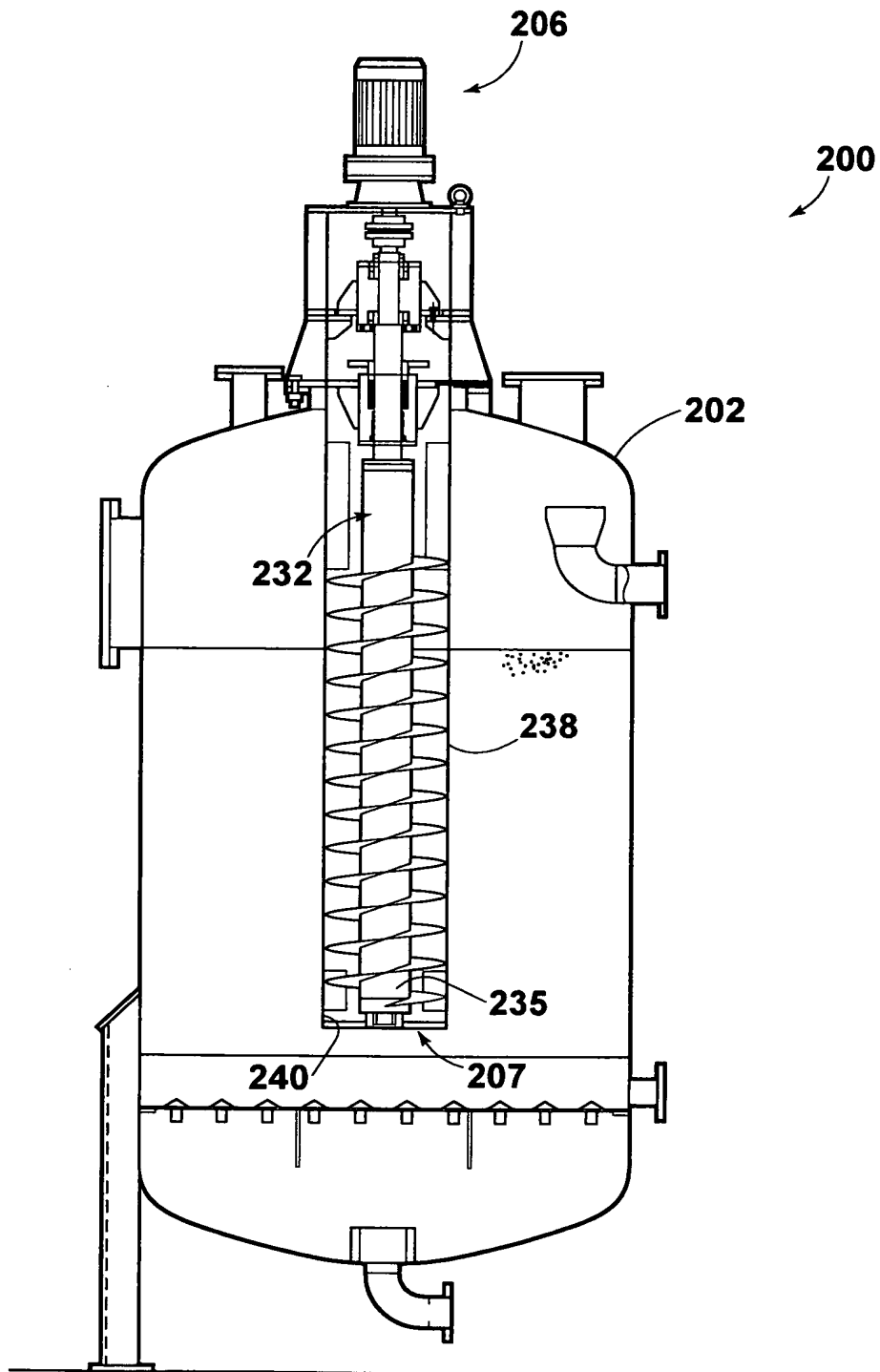


FIG.12

	FILTRATION	WATER LEVEL ADJUSTMENT	CLEANSING	SECOND BACKWASH	WASTE WATER	FILTRATION
MOTOR						
V1 : RAW WATER VALVE						
V2 : FILTERED WATER VALVE						
V3 : EXPELLED WATER VALVE						
V4' : BACKWASH VALVE						
V5' : WATER LEVEL ADJUSTING VALVE (WASTE WATER VALVE)						
V6 : WATER LEVEL ADJUSTING VALVE						
P1 : RAW WATER PUMP						
P2 : BACKWASH PUMP						

FIG.13

[illegible]